FCC Information and Copyright

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation.

The vendor makes no representations or warranties with respect to the contents here of and specially disclaims any implied warranties of merchantability or fitness for any purpose. Further the vendor reserves the right to revise this publication and to make changes to the contents here of without obligation to notify any party beforehand.
Duplication of this publication, in part or in whole, is not allowed without first obtaining the vendor's approval in writing.
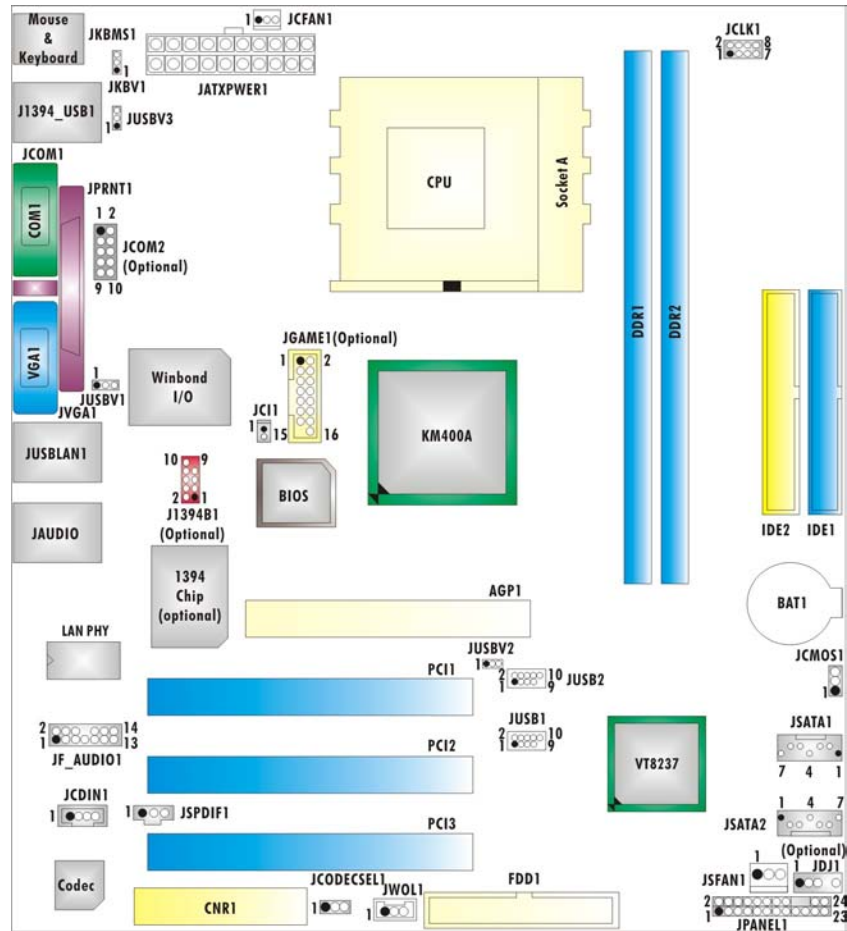
The content of this user's manual is subject to be changed without notice and we will not be responsible for any mistakes found in this user's manual. All the brand and product names are trademarks of their respective companies.

Contents

Layout of M7VIZ Grand

NOTE: ●represents the first pin.

Component Index
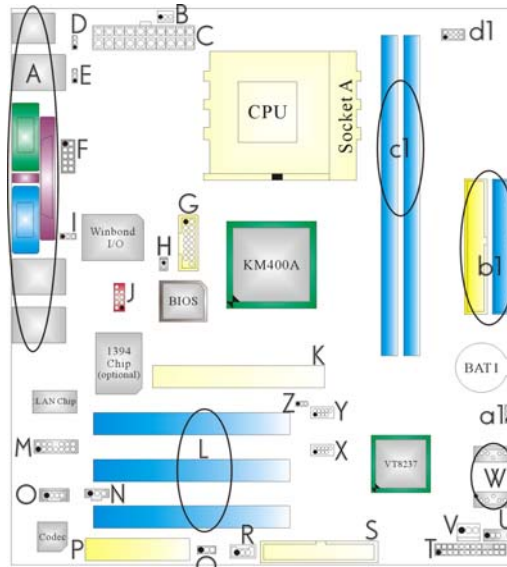
A. **Back Panel Connectors**

B. **CPU Fan Connector (JCFAN1)**

C. **ATX Power Connector (JATXPWER1)**

D. **Power Source Selection for Keyboard and Mouse (JKBV1)**

E. **Power Source Selection for USB (JUSBV3)**

F. **COM2 Header (JCOM2): Optional**

G. **Game Port Header (JGAME1): Optional**

H. **Case Open Connector (JCI1)**

I. **Power Source Selection for USB (JUSBV1)**

J. **Front 1394 Header(J1394B1): Optional**

K. **Accelerated Graphics Port Slot (AGP1)**

L. **PCI BUS Slots (PCI 1-3)**

M. **Front Audio Header (JF_AUDIO1)**

N. **Digital Audio Connector (JSPDIF1)**

O. **CD-ROM Audio-In Header (JCDIN1)**

P. **Communication Network Riser Slot (CNR1)**

Q. **CNR Codec/ Onboard Selection (JCODECSEL1)**

R. **Wake On LAN Header (JWOL1)**

S. **Floppy Disk Connector (FDD1)**

T. **Front Panel Connector (JPANEL1)**

U. **Audio DJ Header (JDJ1): Optional**

V. **System FAN Header (JSFAN1)**

W. **Serial ATA Connectors (JSATA1-2)**

X. **Front USB Header (JUSB1)**

Y. **Front USB Header (JUSB2)**

Z. **Power Source Selection for USB (JUSBV2)**

a1. **Clear CMOS Function (JCMOS1)**

b1. **IDE Connectors (IDE1-2)**

c1. **DDR Modules (DDR1-2)**

d1. **Frequency Selection (JCLK1)**

M7VIZ Grand System Structure

CPU+SocketA

KM400A

VGA/TV

CRT

DDR200/266/333/400

AGP4X/8X

VT8237

8 USB2.0

ATA33/66/100/133

BIOS

IDE1/IDE2

10Mb/s, 100Mb/s
LAN

3 PCI Master

IEEE1394
(Optional)

Super I/O

Floopy/Printer/Keyboard/Mouse
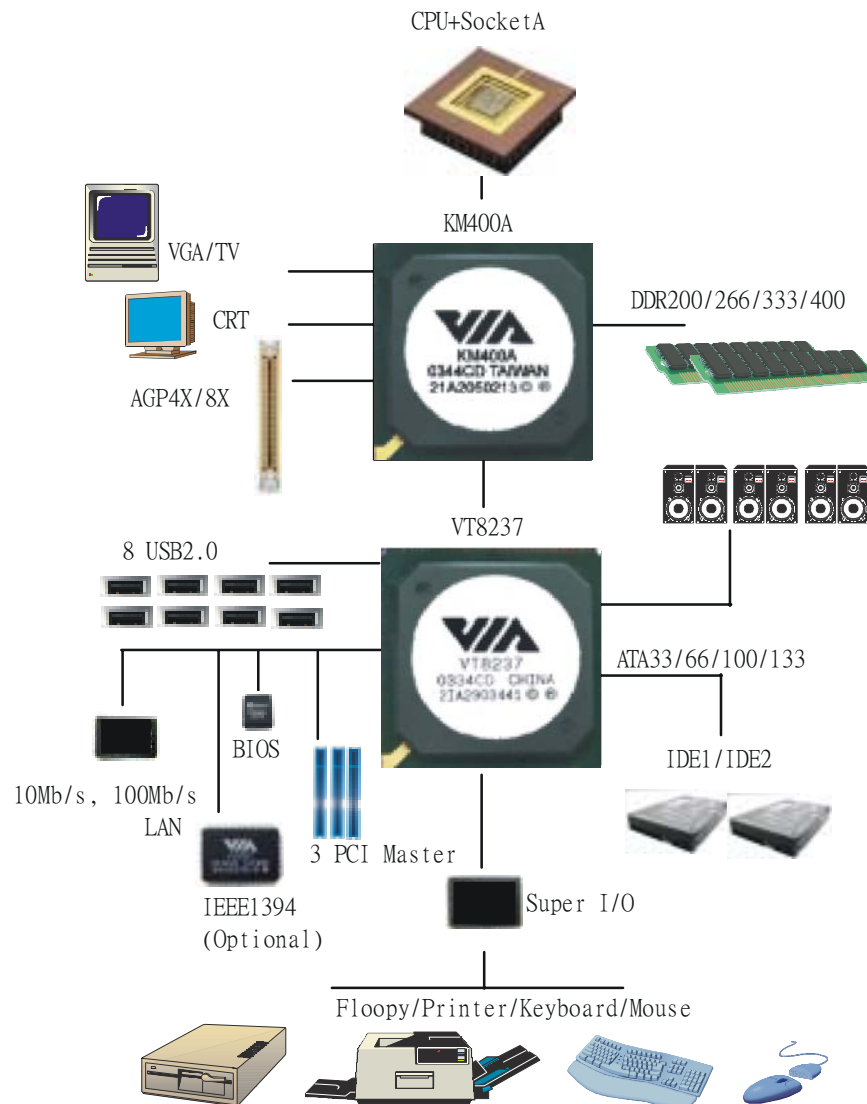
English

M7VIZ Grand Features

A. Hardware

CPU
- Provides Socket A.
- Supports single AMD® Athlon XP/ Duron Family processor.
- Front Side Bus at 200/266/333/400 MHz.

Chipset
- North Bridge: VIA KM400A.
- South Bridge: VIA VT8237.

Main Memory
- Supports up to 2 DDR devices.
- Supports 200/266/333/400 MHz (without ECC) DDR devices.
- Maximum memory size is 2GB.

Super I/O
- Chip: Winbond W83697HF.
- Meet Low Pin Count (LPC) Spec. 1.0
- Integrate Hardware Monitor functions.
- Support Device Power Management (DPM) and ACPI.

Slots
- Three 32-bit PCI bus master slots.
- One CNR slot. (only Type B)
- One AGP 8X slot.

On Board IDE
- Supports four IDE disk drives.
- Supports PIO Mode 4, Master Mode and Ultra DMA 33/66/100/133 Bus Master Mode.

LAN
- PHY: VIA VT6103.
- Supports 10 Mb/s and 100 Mb/s auto-negotiation
- Half/Full duplex capability.

IEEE 1394 Chip (optional)
- Chip: VIA VT6307.
- Supports 2 IEEE 1394 ports.
- Detects connected device types and automatically configures data speed to 100, 200 or 400 Mbps.

On Board AC'97 Sound Codec
- Chip: 9761A.
- Compliant with AC'97 specification.
- Supports 6 channels.
- Supports stereo microphone.

On Board Peripherals

a. Rear side
- 1 serial port.
- 1 VGA port.
- 1 parallel port. (SPP/EPP/ECP mode)
- Audio ports in vertical position.
- 1 RJ-45 LAN jack.
- PS/2 mouse and PS/2 keyboard.
- 4 USB2.0 ports.
- 1 1394A Firewire port. (optional)

b. Front Side
- 1 floppy port supports 2 FDDs with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
- 4 USB2.0 ports.
- 1 front audio header.
- 1 S/PDIF Out header.
- 1 1394A Firewire port. (optional)

Dimensions
- ATX Form Factor: 22.5cm X 24.4cm (W X L)

B. BIOS & Software

BIOS
- Award legal BIOS.
- Supports APM1.2.
- Supports ACPI.
- Supports USB Function.

Software
- Supports Warpspeeder™, 9th Touch™, FLASHER™ and StudioFun! ™ (optional).
- Offers the highest performance for Windows 98 SE, Windows 2000, Windows Me, Windows XP, UNIX Series etc.

Package contents

- HDD Cable X 1
- FDD Cable X 1
- User's Manual X 1
- Fully Setup Driver CD X 1
- StudioFun! Application CD X 1 (optional)

- USB 2.0 Cable X 1 (optional)
- S/PDIF Cable X 1 (optional)
- Rear I/O Panel for Micro ATX Case X 1 (optional)
- IEEE 1394 Cable X 1 (optional)
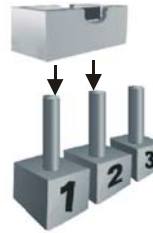
How to set up Jumper

The illustration shows how to set up a jumper. When the Jumper cap is placed on pins, the jumper is "close". If no jumper cap is placed on the pins, the jumper is "open". The illustration shows a 3-pin jumper whose pin 1 and 2 are "close" when jumper cap is placed on these 2 pins.

Jumper open	Jumper close	Pin1-2 close

CPU Installation

Step1: Pull the lever sideways away from the socket and then raise the lever up to a 90-degree angle.

Step2: Look for the white dot/cut edge. The white dot/cut edge should point towards the lever pivot. The CPU will fit only in the correct orientation.

Step3: Hold the CPU down firmly, and then close the lever to complete the installation.

Step4: Put the CPU Fan on the CPU and buckle it. Connect the CPU fan power cable to the JCFAN1. Then the installation is completed.

Step1	Step2	Step3	Step4

CPU Fan Header: JCFAN1

	Pin	Assignment
1 ●○○ **JCFAN1**	1	Ground
	2	+12V
	3	FAN RPM rate Sense

System Fan Header: JSFAN1

	Pin	Assignment
1 ●○○ **JSFAN1**	1	Ground
	2	+12V
	3	FAN RPM rate Sense

DDR DIMM Modules: DDR1, DDR2

DRAM Access Time: 2.5V Unbuffered/ Registered DDR 200 MHz (PC1600)/ DDR 266 MHz (PC2100)/ DDR 333 MHz (PC2700)/ DDR 400 MHz (PC3200) Type required.

DRAM Type: 64MB/ 128MB/ 256MB/ 512MB/ 1GB DIMM Module (184 pin)

DIMM Socket Location	DDR Module	Total Memory Size (MB)
DDR 1	64MB/128MB/256MB/512MB/1GB *1	Max is
DDR 2	64MB/128MB/256MB/512MB/1GB *1	2GB

Only for reference

Installing DDR Module

1. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM to the slot in the way that the notch of the DIMM matches the break of the slot.

2. Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.

Jumpers, Headers, Connectors & Slots

Floppy Disk Connector: FDD1

The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.

Hard Disk Connectors: IDE1/ IDE2

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~5, Bus Master, and Ultra DMA 33/ 66/ 100/ 133 functionality. It has two HDD connectors IDE1 (primary) and IDE2 (secondary).
The IDE connectors can connect a master and a slave drive, so you can connect up to four hard disk drives. The first hard drive should always be connected to IDE1.

Peripheral Component Interconnect Slots: PCI 1-3

This motherboard is equipped with 3 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.

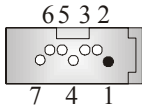## Accelerated Graphics Port Slot: AGP1

Your monitor will attach directly to that video card. This motherboard supports video cards for PCI slots, but it is also equipped with an Accelerated Graphics Port (AGP). An AGP card will take advantage of AGP technology for improved video efficiency and performance, especially with 3D graphics.

Communication Network Riser Slot: CNR1

The CNR specification is an open Industry Standard Architecture, and it defines a hardware scalable riser card interface, which supports modem only.

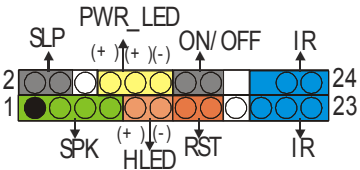## Serial ATA Connector: JSATA1/ JSATA2

The motherboard has a PCI to SATA Controller with 2 channels SATA interface, it satisfies the SATA 1.0 spec and can transfer data with 1.5 Gb/s speed.

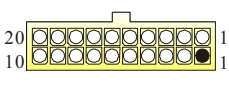|	Pin	Assignment	Pin	Assignment
6 5 3 2	1	Ground	2	TX+
	3	TX-	4	Ground
7 4 1	5	RX-	6	RX+
JSATA1/ JSATA2	7	Ground		

Note: 1. When plugging SATA HDD on JSATA1 connector, SATA BIOS will automatically detect as channel 1.
        2. When plugging SATA HDD on JSATA2 connector, SATA BIOS will automatically detect as channel 0.
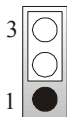
Front Panel Connector: JPANEL1

Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker	2	Sleep Control	Sleep
3	NA	Connector	4	Ground	Button
5	NA		6	NA	NA
7	Speaker		8	Power LED (+)	POWER
9	HDD LED (+)	Hard Drive	10	Power LED (+)	LED
11	HDD LED (-)	LED	12	Power LED (-)	
13	Ground	Reset	14	Power Button	Power-on
15	Reset Control	Button	16	Ground	Button
17	NA		18	KEY	
19	NA	IrDA	20	KEY	IrDA
21	+5V	Connector	22	Ground	Connector
23	IRTX		24	IRRX	

Power Connectors: JATXPWER1

PIN	Assignment	PIN	Assignment
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	Ground	13	Ground
4	+5V	14	PS_ON
5	Ground	15	Ground
6	+5V	16	Ground
7	Ground	17	Ground
8	PW_OK	18	-5V
9	Standby Voltage +5V	19	+5V
10	+12V	20	+5V

Power Source Selection for Keyboard/ Mouse: JKBV1

JKBV1	Assignment	Description
3 ○ ○ 1 ● Pin 1-2 close	+5V	+5V for keyboard and mouse
3 ○ ○ 1 ● Pin 2-3 close	+5V Standby Voltage	PS/2 Mouse and PS/2 Keyboard are powered with +5V standby voltage

Note: In order to support the function "power-on the system via keyboard and mouse function," "JKBV1" jumper cap should be placed on pin 2-3.

Power Source Selection for USB: JUSBV1/ JUSBV2/ JUSBV3

JUSBV1/JUSBV2/JUSBV3	Assignment	Description
1 ●○○ 3 Pin 1-2 close	+5V	JUSBV3: 5V for USB located at the J1394_USB1 port connector JUSBV2: 5V for USB located at the JUSB2/ JUSB1 port connectors JUSBV1: 5V for USB located at the JUSBLAN1 port connector
1 ●○○ 3 Pin 2-3 close	+5V Standby Voltage	JUSBV3: J1394_USB1 port is powered with standby voltage of 5V JUSBV2: JUSB2/ JUSB1 ports are powered with standby voltage of 5V JUSBV1: JUSBLAN1 port is powered with standby voltage of 5V

Note:1. In order to support the function "power-on the system via USB devices function," "JUSBV1/JUSBV2/ JUSBV3" jumper cap should be placed on pin 2-3 respectively.
*2. Recommend the selection of +5V Standby Voltage for S3 mode.*

Clear CMOS Jumper: JCMOS1

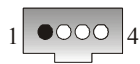| JCMOS1	Assignment
3 ○ ○ 1 ● Pin 1-2 Close	Normal Operation (default)
3 ○ ○ 1 ● Pin 2-3 Close	Clear CMOS Data

※ **Clear CMOS Procedures:**
1. Remove AC power line.
2. Set the jumper to "Pin 2-3 Close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 Close".
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

Case Open Connector: JCI1

1 ● ○ **JCI1**	Pin	Assignment
	1	Case Open Signal
	2	Ground

CD-ROM Audio-In Header: JCDIN1
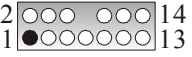
1 ●○○○ 4 **JCDIN1**	Pin	Assignment
	1	Left Channel Input
	2	Ground
	3	Ground
	4	Right Channel Input

Digital Audio Connector: JSPDIF1
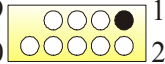
1 ●○○ 3 **JSPDIF1**	Pin	Assignment
	1	+5V
	2	SPDIF_OUT
	3	Ground
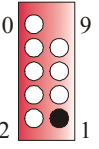
Front Panel Audio Header: JF_AUDIO1

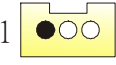| Pin	Assignment	Pin	Assignment
1	Mic In/ Center	2	Ground
3	Mic Power/ Bass	4	Audio Power
5	Right Line Out/ Speaker Out Right	6	Right Line Out/ Speaker Out Right
7	Reserved	8	Key
9	Left Line Out/ Speaker Out Left	10	Left Line Out/ Speaker Out Left
11	Right Line In/ Rear Speaker Right	12	Right Line In/ Rear Speaker Right
13	Left Line In/ Rear Speaker Left	14	Left Line In/ Rear Speaker Left

Front USB Header: JUSB2/ JUSB1

Pin	Assignment	Pin	Assignment
1	+5V(fused)	2	+5V(fused)
3	USB-	4	USB-
5	USB+	6	USB+
7	Ground	8	Ground
9	KEY	10	NA

Front 1394 Header: J1394B1 (Optional)
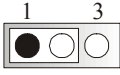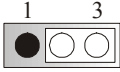
Pin	Assignment	Pin	Assignment
1	A+	2	A-
3	Ground	4	Ground
5	B+	6	B-
7	+12V	8	+12V
9	KEY	10	Ground

Wake On LAN Header: JWOL1
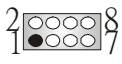
Pin	Assignment
1	+5V_Standby
2	Ground
3	Wake up
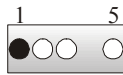
CNR Codec/ Onboard Selection: JCODECSEL1

JCODECSEL1	Assignment
1 3 Pin 1-2 Close	Onboard Codec is used (default)
1 3 Pin 2-3 Close	CNR Codec is used
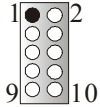
Frequency Selection: JCLK1

	Pin	100 MHz	133 MHz	166 MHz	200 MHz
2 8 1 7	1-2	Close	Open	Open	Close
	3-4	Close	Close	Open	Open
	5-6	Open	Open	Open	Open
	7-8	Open	Open	Open	Open

Audio DJ: JDJ1 (Optional)
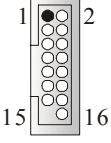
1 5 JDJ1	Pin	Assignment	Pin	Assignment
	1	SMBDT	2	SMBCK
	3	-INTR_B	4	NA
	5	PWRGD		

COM2 Header: JCOM2 (Optional)

1 2 9 10 JCOM2				
Pin	**Assignment**	**Pin**	**Assignment**	
1	RIN1	2	RIN3	
3	DOUT2	4	DOUT3	
5	Ground	6	RIN2	
7	DOUT1	8	RIN4	
9	-XRI1	10	NA	

Game Header: JGAME1 (Optional)

JGAME1

Pin	Assignment	Pin	Assignment
1	+5V	2	+5V
3	Joystick B Button 1	4	Joystick A Button 1
5	Joystick B Coordinate X	6	Joystick A Coordinate X
7	MIDI Output	8	Ground
9	Joystick B Coordinate Y	10	Ground
11	Joystick B Button 2	12	Joystick A Coordinate Y
13	MIDI Input	14	Joystick A Button 2
15	NA	16	+5V

Back Panel Connectors
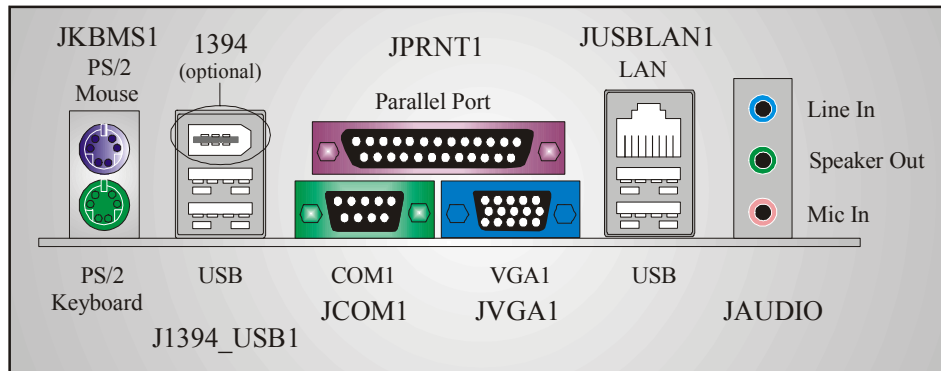
Français

Caractéristiques de M7VIZ Grand

A. Matériel

Processeur
- Avec socket A.
- Prise en charge du processeur AMD® Athlon XP/Duron Family.
- Bus frontal à 200/266/333/400 MHz.

Jeu de puces
- North Bridge : VIA KM400A.
- South Bridge : VIA VT8237.

Mémoire principale
- Prise en charge de deux périphériques 2 DDR.
- Prise en charge des périphériques DDR 200/266/333/400 MHz (sans ECC).
- Taille maximale de la mémoire :2Go.

Super E/S
- Puce : Winbond W83627HF.
- Conforme aux spécifications Low Pin Count (LPC). 1.0
- Intégration des fonctions du moniteur de matériel.
- Prise en charge de Device Power Management (DPM) et ACPI.

Fentes
- 3 fentes Bus Master PCI à 32 bits.
- Une fente AGP 8X.
- Une fente CNR.

IDE intégré
- Prise en charge de quatre lecteurs de disque IDE.
- Prise en charge de PIO Mode 4 et Ultra DMA 33/66/100/133 Bus Master Mode.

LAN
- PHY : VIA VT6103
- Double Vitesse: 10/100Mbps.
- Full/Half Duplex.
- Négociation automatique : 10/100 Mbps, Full/Half Duplex.

IEEE 1394 Puce (optionnel)
- Puce : VIA VT6307
- Prise 2 ports IEEE 1394.

AC'97 Sound Codec intégré (seulement pour version 1.x)
🔴 Puce: 9761A
🔴 Conforme aux spécifications AC'97.
🔴 Interface AC'97 2.2.
🔴 Prise en charge de 6 canaux.
🔴 Prise en charge de la microphone stereo.

Périphériques intégrés
a. Côté arrière
🔴 1 port série.
🔴 1 port VGA.
🔴 1 port parallèle (mode SPP/EPP/ECP)
🔴 1 port audio en position verticale.
🔴 1 RJ-45 LAN Jack.
🔴 Souris PS/2 et clavier PS/2.
🔴 4 ports USB2.0.
🔴 1 port 1394A. (optionnel)
b. Côté frontal
🔴 1 port disquette prenant en charge 2 FDD avec 360K, 720K, 1.2M, 1.44M et 2,88Mo.
🔴 4 ports USB2.0, 1 Embase de Sortie S/PDIF. 1 Embase Audio, 1 port 1394A (optionnel).

Dimensions
🔴 Facteur de forme ATX : 22,5 x 24,4cm. (Larg x L)

B. BIOS et logiciel

BIOS
🟨 Award legal Bios.
🟨 APM1.2.
🟨 ACPI.
🟨 Fonction USB.

Logiciel
🟨 Prise en charge de Warpspeeder™, 9th Touch™, FLASHER™ et StudioFun!™ (optionnel).
🟨 Offrant la meilleure performance pour Windows 98 SE, Windows 2000, Windows Me, Windows XP, UNIX series etc.

Contenu de l'Emballage

🟨 Câble de Disque Dur X1
🟨 Câble de Lecteur de Disquette X1
🟨 Manuel d'utilisation X1
🟨 CD de Sollicitation StudioFun! X 1 (Optionnel)
🟨 Câble USB 2.0 X1 (Optionnel)
🟨 Panneau d'E/S Arrière pour Boîtier Flex X 1 (Optionnel)
🟨 CD de Pilote Complet X 1
🟨 Câble S/PDIF X 1 (optionnel), Câble IEEE1394 X 1 (optionnel)

WarpSpeeder™

Introduction

[WarpSpeeder™], a new powerful control utility, features three user-friendly functions including Overclock Manager, Overvoltage Manager, and Hardware Monitor.

With the Overclock Manager, users can easily adjust the frequency they prefer or they can get the best CPU performance with just one click. The Overvoltage Manager, on the other hand, helps to power up CPU core voltage and Memory voltage. The cool Hardware Monitor smartly indicates the temperatures, voltage and CPU fan speed as well as the chipset information. Also, in the About panel, you can get detail descriptions about BIOS model and chipsets. In addition, the frequency status of CPU, memory, AGP and PCI along with the CPU speed are synchronically shown on our main panel.

Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [WarpSpeeder™] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable one.

System Requirement

OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP

DirectX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

Installation

1. Execute the setup execution file, and then the following dialog will pop up. Please click "Next" button and follow the default procedure to install.
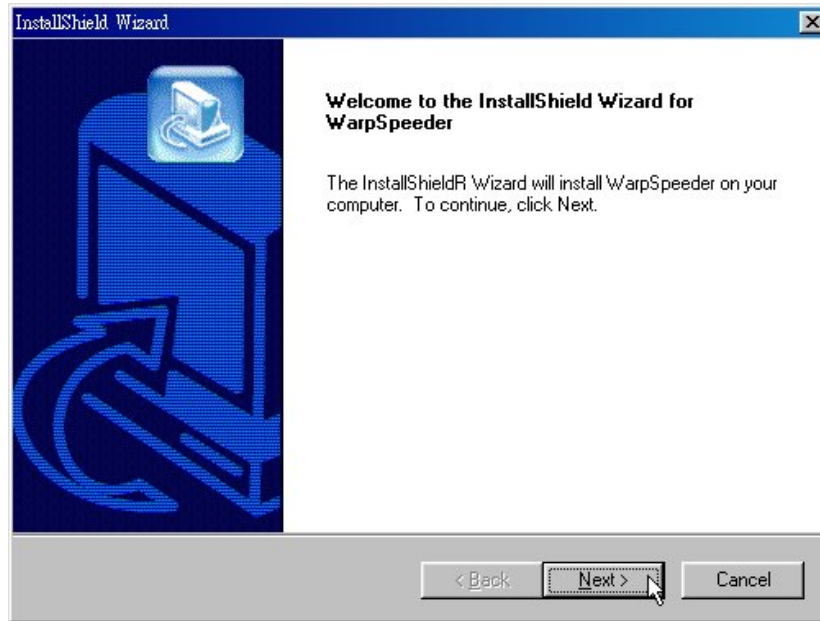
2. When you see the following dialog in setup procedure, it means setup is completed. If the "Launch the WarpSpeeder Tray Utility" checkbox is checked, the Tray Icon utility and [WarpSpeeder™] utility will be automatically and immediately launched after you click "Finish" button.
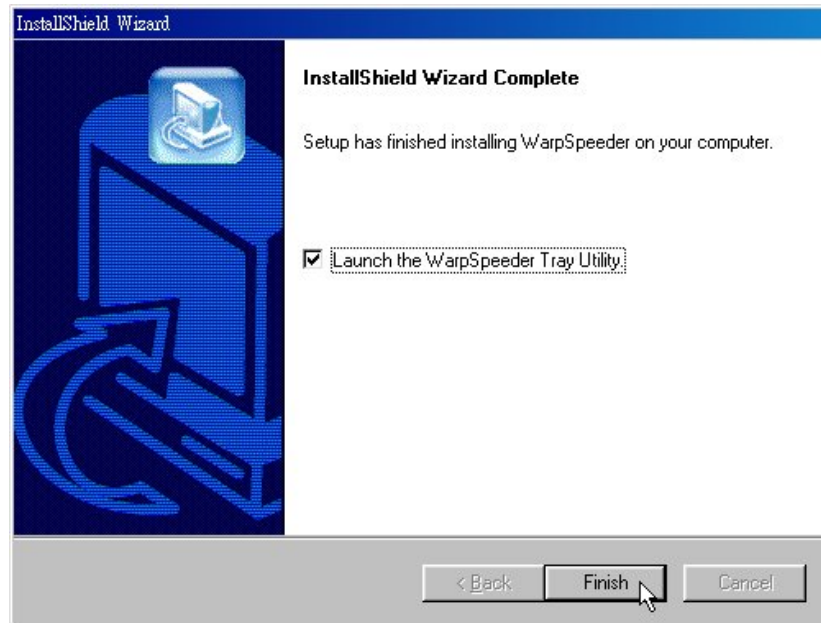
Usage

[WarpSpeeder™] includes 1 tray icon and 5 panels:

1. Tray Icon:

Whenever the Tray Icon utility is launched, it will display a little tray icon on the right side of Windows Taskbar.

M7VIZ Grand

This utility is responsible for conveniently invoking [WarpSpeeder™] Utility. You can use the mouse by clicking the left button in order to invoke [WarpSpeeder™] directly from the little tray icon or you can right-click the little tray icon to pop up a popup menu as following figure. The "Launch Utility" item in the popup menu has the same function as mouse left-click on tray icon and "Exit" item will close Tray Icon utility if selected.
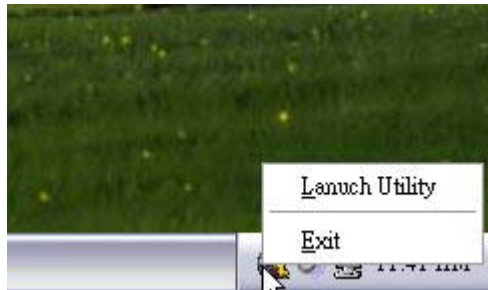
2. Main Panel

If you click the tray icon, [WarpSpeeder™] utility will be invoked. Please refer

do the following figure; the utility's first window you will see is Main Panel.

Main Panel contains features as follows:

a. Display the CPU Speed, CPU external clock, Memory clock, AGP clock, and PCI clock information.

b. Contains About, Voltage, Overclock, and Hardware Monitor Buttons for invoking respective panels.

c. With a user-friendly Status Animation, it can represent 3 overclock percentage stages:

> Man walking => overclock percentage from 100% ~ 110 %

> Panther running => overclock percentage from 110% ~ 120%

> Car racing => overclock percentage from 120% ~ above
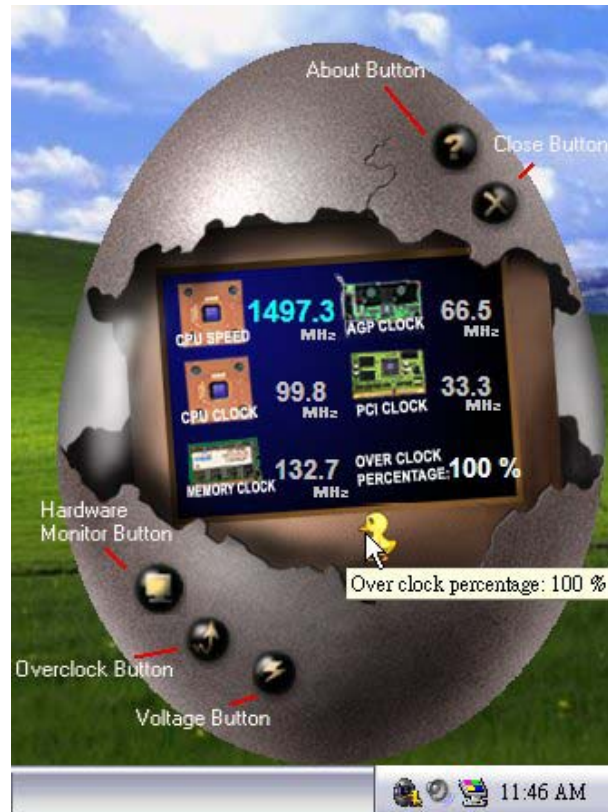
3. Voltage Panel

Click the Voltage button in Main Panel, the button will be highlighted and the Voltage Panel will slide out to up as the following figure.

In this panel, you can decide to increase CPU core voltage and Memory voltage or not. The default setting is "No". If you want to get the best performance of overclocking, we recommend you click the option "Yes".
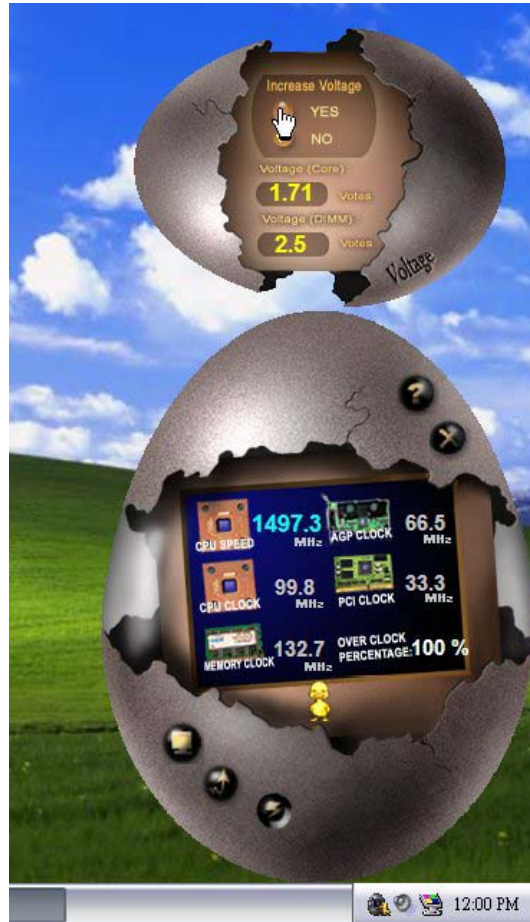
4. Overclock Panel

Click the Overclock button in Main Panel, the button will be highlighted and the Overclock Panel will slide out to left as the following figure.

Overclock Panel contains the these features:

a. "–3MHz button", "-1MHz button", "+1MHz button", and "+3MHz button": provide user the ability to do real-time overclock adjustment.

> *Warning: Manually overclock is potentially dangerous, especially when the overclocking percentage is over 110 %. We strongly recommend you verify every speed you overclock by click the Verify button. Or, you can just click Auto overclock button and let [WarpSpeeder™] automatically gets the best result for you.*

b. "Recovery Dialog button": Pop up the following dialog. Let user select a restoring way if system need to do a fail-safe reboot.
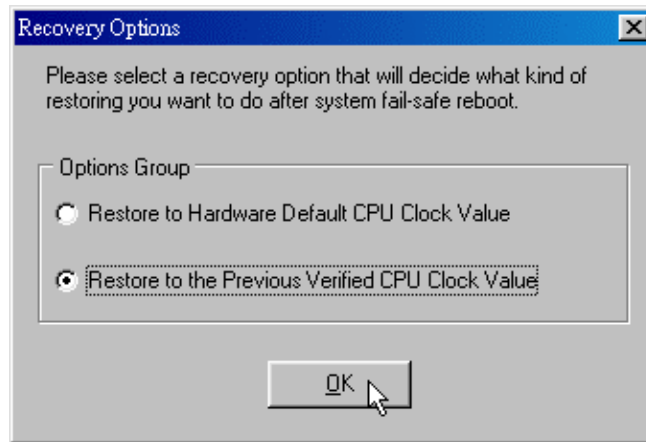
d. "Auto-overclock button": User can click this button and [WarpSpeeder™] will set the best and stable performance and frequency automatically. [WarpSpeeder™] utility will execute a series of testing until system fail. Then system will do fail-safe reboot by using Watchdog function. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

e. "Verify button": User can click this button and [WarpSpeeder™] will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fail, system will do a fail-safe rebooting. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

Note: Because the testing programs, invoked in Auto-overclock and Verify, include DirectDraw, Direct3D and DirectShow tests, the DirectX 8.1 or newer runtime library is required. And please make sure your display card's color depth is High color (16 bit) or True color(24/32 bit) that is required for Direct3D rendering.

M7VIZ Grand

5. Hardware Monitor Panel

Click the Hardware Monitor button in Main Panel, the button will be highlighted and the Hardware Monitor panel will slide out to left as the following figure.

In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.

6. About Panel

Click the About button in Main Panel, the button will be highlighted and the About Panel will slide out to up as the following figure.

In this panel, you can get model name and detail information in hints of all the chipset that are related to overclocking. You can also get the mainboard's BIOS model and the Version number of [WarpSpeeder™] utility.

Note: Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, [WarpSpeeder™] divide these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but will not interfere other panels' functions. This property can make [WarpSpeeder™] utility more robust.

Trouble Shooting

PROBABLE	SOLUTION
No power to the system at all Power light don't illuminate, fan inside power supply does not turn on. Indicator light on keyboard does not turn on	* Make sure power cable is securely plugged in * Replace cable * Contact technical support

PROBABLE	SOLUTION
System inoperative. Keyboard lights are on, power indicator lights are lit, hard drive is spinning.	* Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.

PROBABLE	SOLUTION
System does not boot from hard disk drive, can be booted from CD-ROM drive.	* Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. * Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.

PROBABLE	SOLUTION
System only boots from CD-ROM. Hard disk can be read and applications can be used but booting from hard disk is impossible.	* Back up data and applications files. Reformat the hard drive. Re-install applications and data using backup disks.

PROBABLE	SOLUTION
Screen message says "Invalid Configuration" or "CMOS Failure."	* Review system's equipment . Make sure correct information is in setup.

PROBABLE	SOLUTION
Cannot boot system after installing second hard drive.	* Set master/slave jumpers correctly. * Run SETUP program and select correct drive types. Call drive manufacturers for compatibility with other drives.

1/29/2004